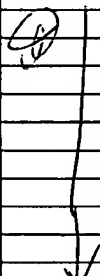


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|---|---|----|--------------------------|-------------------------|-----------|
| Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | Complete If Known | | |
| | | | Application Number | 10/798,675 | |
| | | | Filing Date | March 11, 2004 | |
| | | | First Named Inventor | Oscar E. Agazzi, et al. | |
| | | | Art Unit | 2631 | |
| | | | Examiner Name | | |
| Sheet | 1 | of | 1 | Attorney Docket Number | 13476US03 |

| U.S. PATENT DOCUMENTS | | | | | |
|---|-----------------------|--|--------------------------------|---|---|
| Examiner Initials * | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number - Kind Code ² (if known) | | | |
|  | A | US-6,272,569 | 08-07-2001 | Nordling, Karl | |
| | B | US- 6,777,914 | 07-07-1998 | Larsson et al. | |
| | C | US- 6,177,951 | 01-23-2001 | Ghosh, Monisha | |
| | D | US- 5,353,310 | 10-04-1994 | Russell et al. | |
| | E | US- 5,809,071 | 09-15-1998 | Kobayashi et al. | |
| | F | US- 6,055,119 | 04-25-2000 | Lee, Myeong-hwan | |
| | G | US- 5,870,438 | 02-09-1999 | Olafsson, Sverrir | |
| | H | US- 5,367,536 | 11-22-1994 | Tsujimoto, Ichiro | |
| | I | US- 5,509,032 | 04-16-1998 | Bond, James W. | |
| | J | US- 5,638,409 | 08-10-1997 | Awata et al. | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|---|--------------------------------|---|---|----------------|
| Examiner Initials * | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ - Number ⁴ - Kind Code ⁵ (if known) | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | | |
|--------------------|---|-----------------|----------|
| Examiner Signature |  | Date Considered | 12/07/07 |
|--------------------|---|-----------------|----------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|---|---|----|---|--------------------------|------------------|
| Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/798,675 |
| | | | | Filing Date | 03-11-2004 |
| | | | | First Named Inventor | Agazzi et al |
| | | | | Art Unit | 2632 |
| | | | | Examiner Name | Not yet assigned |
| | | | | Attorney Docket Number | 13476US03 |
| Sheet | 1 | of | 2 | | |

| U.S. PATENT DOCUMENTS | | | | | |
|------------------------|--------------------------|--|-----------------------------------|--|---|
| Examiner Initials * | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number - Kind Code ² (if known) | | | |
| | | US- 4,328,585 | 05-1982 | Monsen | |
| | | US- 4,631,735 | 12-1986 | Qureshi | |
| | | US- 4,833,693 | 05-1989 | Eyuboglu | |
| | | US- 5,249,200 | 09-1993 | Chen et al | |
| | | US- 5,604,769 | 02-1997 | Wang | |
| | | US- 5,784,415 | 07-1998 | Chevillat et al | |
| | | US- 5,991,349 | 11-1999 | Chen | |
| | | US- 5,870,433 | 02-1999 | Huber et al. | |
| | | US- 5,914,987 | 06-1999 | Fogel | |
| | | US- 6,009,120 | 12-1999 | Nobakht | |
| | | US- 6,249,544 | 06-2001 | Azazzi et al. | |
| | | US- 6,252,904 | 06-2001 | Agazzi et al. | |
| | | US- 6,504,867 | 01-2003 | Efstathiou | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|--------------------------|---|-----------------------------------|---|--|----------------|
| Examiner Initials * | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ - Number ⁴ - Kind Code ⁵ (if known) | | | | |
| | | EP-0206770 A1 | 12-30-1986 | Codex Corporation | | |
| | | EP-0778687 A1 | 06-11-1997 | KE Kommunikations- Elektronik GmbH & Co. | | |
| | | EP-0889612 A1 | 01-07-1999 | Lucent Technologies, Inc. | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | | |
|-----------------------|--|--------------------|----------|
| Examiner Signature | | Date Considered | 12/07/07 |
|-----------------------|--|--------------------|----------|

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ² Applicant's unique citation designation number (optional). ³ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

| | | | |
|---|---|--------------------------|------------------|
| Substitute for form 1449/PTO | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | Application Number | 10/798,675 |
| | | Filing Date | 03-11-2004 |
| | | First Named Inventor | Agazzi et al |
| | | Art Unit | 2632 |
| | | Examiner Name | Not yet assigned |
| | | Attorney Docket Number | 13476US03 |
| Sheet | 1 | of | 2 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|--------------------------|---|----------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | | BERGMANS J W ET AL, "On the Use of Decision Feedback for Simplifying the Viterbi Detector", Philips Journal of Research, November 23, 1987, pp. 399-428, Vol. 42 no. 4, XP000565157, Amsterdam, The Netherlands. | |
| | | HARATSCH E, "High-Speed VLSI Implementation of Reduced Complexity Sequence Estimation Algorithms with Application to Gigabit Ethernet 100Base-T", International Symposium on VLSI Technology, Systems and Applications, Piscataway, NJ, USA, June 8-10 1999, pp 171-174, XP002136642. | |
| | | RAHELI R, "Per Survivor Processing: A General Approach to MLSE in Uncertain Environments", IEEE Transactions on Communications, New York, USA, February 1995, pp 354-364, vol. 43 no. 2-4, XP002059868. | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | | |
|-----------------------|--|--------------------|----------|
| Examiner Signature | | Date Considered | 12/07/07 |
|-----------------------|--|--------------------|----------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.